

Connecting via Winsock to STN

Welcome to STN International! Enter x:x

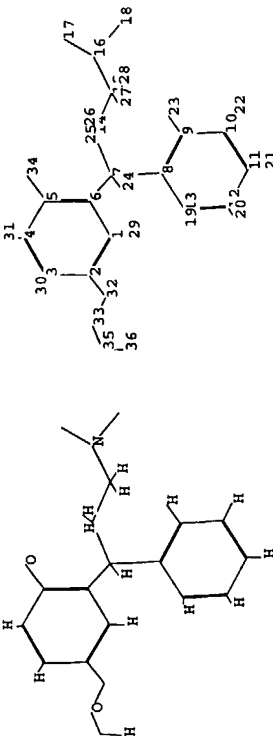
LOGINID:sssptal623zct

PASSWORD:

\*\*\*\*\* RECONNECTED TO STN INTERNATIONAL \*\*\*\*\*  
SESSION RESUMED IN FILE 'REGISTRY' AT 07:52:11 ON 24 NOV 2004  
FILE 'REGISTRY' ENTERED AT 07:52:11 ON 24 NOV 2004  
COPYRIGHT (C) 2004 American Chemical Society (ACS)  
COST IN U.S. DOLLARS

FULL ESTIMATED COST  
ENTRY 0.84  
TOTAL 1.05  
SESSION

=> Uploading C:\Program Files\Stnexp\Queries\DIPHENYLPROP 1.str

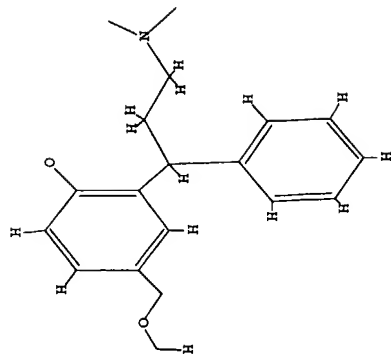


chain nodes :  
7 14 15 16 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 36  
ring nodes :  
1 2 3 4 5 6 8 9 10 11 12 13  
ring/chain nodes :  
17 18 35  
chain bonds :  
1-29 2-32 3-30 4-31 5-34 6-7 7-8 7-14 7-24 9-23 10-22 11-21 12-20  
13-19 14-15 14-25 14-26 15-16 15-27 15-28 16-17 16-18 32-33 33-35 35-36  
ring bonds :  
1-2 1-6 2-3 3-4 4-5 5-6 8-9 8-13 9-10 10-11 11-12 12-13  
exact/norm bonds :  
5-34 15-16 16-17 16-18 32-33 33-35  
exact bonds :  
1-29 2-32 3-30 4-31 6-7 7-8 7-14 7-24 9-23 10-22 11-21 12-20 13-19  
14-15 14-25 14-26 15-27 15-28 35-36  
normalized bonds :  
1-2 1-6 2-3 3-4 4-5 5-6 8-9 8-13 9-10 10-11 11-12 12-13

Match level :  
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:CLASS 8:Atom 9:Atom 10:Atom  
11:Atom 12:Atom 13:Atom 14:CLASS 15:CLASS 16:CLASS 17:CLASS 18:CLASS  
19:CLASS 20:CLASS 21:CLASS 22:CLASS 23:CLASS 24:CLASS 25:CLASS 26:CLASS  
27:CLASS 28:CLASS 29:CLASS 30:CLASS 31:CLASS 32:CLASS 33:CLASS 34:CLASS  
35:CLASS 36:CLASS

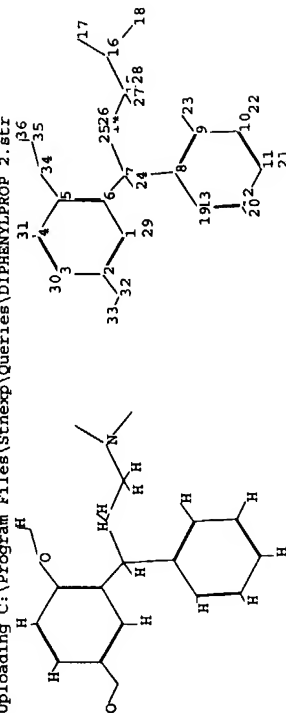
L3 STRUCTURE UPLOADED

=> D L3  
L3 HAS NO ANSWERS  
L3 STR



Structure attributes must be viewed using STN Express query preparation.

=> Uploading C:\Program Files\Stnexp\Queries\DIPHENYLPROP 2.str



chain nodes :  
7 14 15 16 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 36  
ring nodes :  
1 2 3 4 5 6 8 9 10 11 12 13  
ring/chain nodes :  
17 18 35  
chain bonds :  
1-29 2-32 3-30 4-31 5-34 6-7 7-8 7-14 7-24 9-23 10-22 11-21 12-20  
13-19 14-15 14-25 14-26 15-16 15-27 15-28 16-17 16-18 32-33 34-35 35-36

```

ring bonds :
1-2 1-6 2-3 3-4 4-5 5-6 8-9 8-13 9-10 10-11 11-12 12-13
exact/norm bonds :
5-34 15-16 16-17 16-18 32-33 34-35
exact bonds :
1-29 2-32 3-30 4-31 6-7 7-8 7-14 7-24 9-23 10-22 11-21 12-20 13-19
14-15 14-25 14-26 15-27 15-28 35-36
normalized bonds :
1-2 1-6 2-3 3-4 4-5 5-6 8-9 8-13 9-10 10-11 11-12 12-13

```

```

Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:CLASS 8:Atom 9:Atom 10:Atom
11:Atom 12:Atom 13:Atom 14:CLASS 15:CLASS 16:CLASS 17:CLASS 18:CLASS
19:CLASS 20:CLASS 21:CLASS 22:CLASS 23:CLASS 24:CLASS 25:CLASS 26:CLASS
27:CLASS 28:CLASS 29:CLASS 30:CLASS 31:CLASS 32:CLASS 33:CLASS 34:CLASS
35:CLASS 36:CLASS

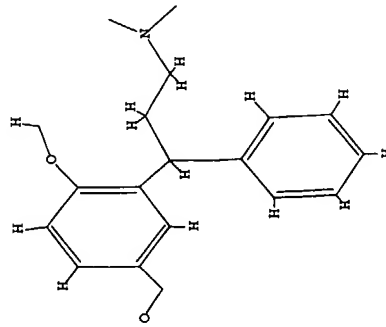
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L4 STRUCTURE UPLOADED

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=> D L4
L4 HAS NO ANSWERS
L4 STR

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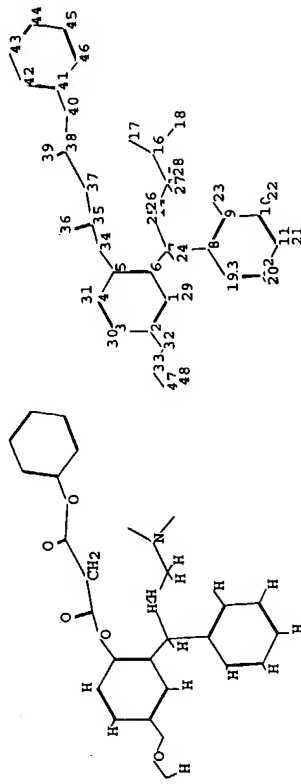


Structure attributes must be viewed using STN Express query preparation.

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Uploading C:\Program Files\Stnexp\Queries\DIPHENYLPROP 3.str

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```

chain nodes :
7 14 15 16 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 36
37 38 39 40 47 48
ring nodes :
1 2 3 4 5 6 8 9 10 11 12 13 41 42 43 44 45 46
ring/chain nodes :
17 18 35
chain bonds :
1-29 2-32 3-30 4-31 5-34 6-7 7-8 7-14 7-24 9-23 10-22 11-21 12-20
13-19 14-15 14-26 15-16 15-27 15-28 16-17 16-18 32-33 33-47 34-35
35-36 35-37 37-38 38-39 38-40 40-41 47-48
ring bonds :
1-2 1-6 2-3 3-4 4-5 5-6 8-9 8-13 9-10 10-11 11-12 12-13 41-42 41-46
42-43 43-44 44-45 45-46
exact/norm bonds :
5-34 15-16 16-17 16-18 32-33 33-47 34-35 35-36 38-39 38-40 40-41
exact bonds :
1-29 2-32 3-30 4-31 6-7 7-8 7-14 7-24 9-23 10-22 11-21 12-20 13-19
14-15 14-25 14-26 15-27 15-28 35-37 37-38 47-48
normalized bonds :
1-2 1-6 2-3 3-4 4-5 5-6 8-9 8-13 9-10 10-11 11-12 12-13 41-42 41-46
42-43 43-44 44-45 45-46

```

```

Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:CLASS 8:Atom 9:Atom 10:Atom
11:Atom 12:Atom 13:Atom 14:CLASS 15:CLASS 16:CLASS 17:CLASS 18:CLASS
19:CLASS 20:CLASS 21:CLASS 22:CLASS 23:CLASS 24:CLASS 25:CLASS 26:CLASS
27:CLASS 28:CLASS 29:CLASS 30:CLASS 31:CLASS 32:CLASS 33:CLASS 34:CLASS
35:CLASS 36:CLASS 37:CLASS 38:CLASS 39:CLASS 40:CLASS 41:Atom 42:Atom
43:Atom 44:Atom 45:Atom 46:Atom 47:CLASS 48:CLASS

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L5 STRUCTURE UPLOADED

```

=> D L5
L5 HAS NO ANSWERS
L5 STR

```

\* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT \*

Structure attributes must be viewed using STN Express query preparation.

=> S L3 SSS FULL  
FULL SEARCH INITIATED 07:54:06 FILE 'REGISTRY'  
FULL SCREEN SEARCH COMPLETED - 197 TO ITERATE

100.0% PROCESSED 197 ITERATIONS  
SEARCH TIME: 00.00.01

L6 25 SEA SSS FUL L3

=> S L4 SSS FULL  
FULL SEARCH INITIATED 07:54:15 FILE 'REGISTRY'  
FULL SCREEN SEARCH COMPLETED - 83 TO ITERATE

100.0% PROCESSED 83 ITERATIONS  
SEARCH TIME: 00.00.01

L7 24 SEA SSS FUL L4

=> S L5 SSS FULL  
FULL SEARCH INITIATED 07:54:22 FILE 'REGISTRY'  
FULL SCREEN SEARCH COMPLETED - 23 TO ITERATE

100.0% PROCESSED 23 ITERATIONS  
SEARCH TIME: 00.00.01

L8 0 SEA SSS FUL L5

=> S L6 OR L7 OR L8  
L9 44 L6 OR L7 OR L8

=> FILE CAPLUS  
COST IN U.S. DOLLARS

FULL ESTIMATED COST

SINCE FILE  
ENTRY  
467.52

TOTAL  
SESSION  
467.73

FILE 'CAPLUS' ENTERED AT 07:54:39 ON 24 NOV 2004  
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.  
PLEASE SEE HELP USAGETERMS FOR DETAILS.  
COPYRIGHT (C) 2004 AMERICAN CHEMICAL SOCIETY (ACS)

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FILE COVERS 1907 - 24 Nov 2004 VOL 141 ISS 22  
FILE LAST UPDATED: 23 Nov 2004 (20041123/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> S L9  
L10 8 L9

=> D 1-8 IBIB ABS HITSTR

L10 ANSWER 1 OF 8 CAPLUS COPYRIGHT 2004 ACS on STN  
ACCESSION NUMBER: 2002:51413 CAPLUS

DOCUMENT NUMBER: 136:102178

TITLE: Preparation of 3,3-diarylpropylamines via hydroformylation-amination of diarylethenes in presence of a transition metal catalyst

INVENTOR(S): Donsbach, Martin; Ellbracht, Peter; Buss, Christian; Schmidt, Andreas  
PATENT ASSIGNEE(S): Schwarz Pharma A.-G., Germany  
SOURCE: PCT Int. Appl., 72 pp.

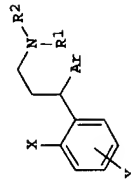
DOCUMENT TYPE: Patent

LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION: CODEN: PIXXD2

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002004399	A1	20020117	WO 2001-EP7803	20010706
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, GR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MY, NZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GN, GW, ML, MR, NE, SN, TD, TG				
DE 10033016	A1	20020124	DE 2000-10033016	20000707
EP 1295342	A1	20030409	EP 2001-962840	20010706
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
JP 2004502748	T2	20040129	JP 2002-509068	20010706
US 2004034080	A1	20040219	US 2003-332290	20030714
US 6809225	B2	20041026	US 2003-332290	20030714
PRIORITY APPL. INFO.: DE 2000-10033016 A 20000707				
WO 2001-EP7803 W 20010706				
OTHER SOURCE(S): CASREACT 136:102178; MARPAT 136:102178				
GI				

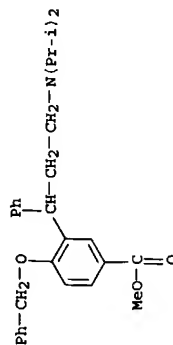


AB The invention relates to a novel method for producing 3,3-diarylpropylamines I [Ar = (un)substituted aryl; X = (un)substituted OH; Y = Cl, Br, I, CN, CH2OR, CHO, CO2R; R = alkyl, aryl; R1, R2 = alkyl, cycloalkyl; NR1R2 = heterocyclic] by hydroformylation/hydrocarbonylation and subsequent reductive amination using a transition metal catalyst. Thus, 5,2-Me(HO)C6H3COPh was methylated and methylenated with MeP+Ph3 Br- to give 5,2-Me(MeO)C6H3COPh:CH2 which was treated with MeP+Ph3 Br- H in presence of Rh(acac)(CO)2 and Bu3P to give 85% 5,2-Me(MeO)C6H3COPh:CH2N(CuMe2)2.

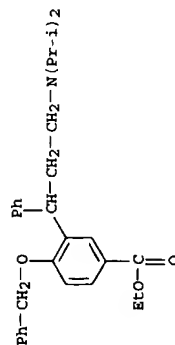
IT 286930-05-07 389068-25-1P

RL: IMP (Industrial manufacture); SPN (Synthetic preparation); PREP (Preparation)

diarylethenes in presence of 3,3-diarylpropylamines via hydroformylation-amination of  
diarylethenes in presence of a transition metal catalyst)  
RN 286930-05-0 CAPLUS  
CN Benzoic acid, 3-[3-[bis(1-methylethyl)amino]-1-phenylpropyl]-4-  
(phenylmethoxy)-, methyl ester (9CI) (CA INDEX NAME)



RN 38068-25-1 CAPLUS  
CN Benzoic acid, 3-[3-[bis(1-methylethyl)amino]-1-phenylpropyl]-4-  
(phenylmethoxy)-, ethyl ester (9CI) (CA INDEX NAME)



REFERENCE COUNT: 4

THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L10 ANSWER 2 OF 8 CAPLUS COPYRIGHT 2004 ACS on STN  
ACCESSION NUMBER: 2001:923742 CAPLUS

DOCUMENT NUMBER: 136:37403  
TITLE: Shortened synthesis of 3,3-diarylpropylamine derivatives

INVENTOR(S): Meese, Claus  
PATENT ASSIGNEE(S): Schwarz Pharma A.-G., Germany  
SOURCE: PCT Int. Appl., 37 pp.

CODEN: PIXXD2

PATENT TYPE: Patent

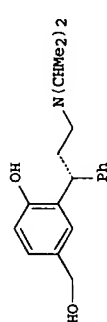
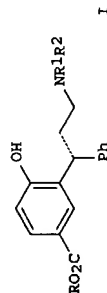
LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001096279	A1	20011220	WO 2001-EP6577	20010611
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MG, MK, MN, MW, MX, MY, NZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
RM:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GN, GW, ML, MR, NE, SN, TD, TG			

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DE 10028443  
CA 2412047  
AA 20011220  
EP 1289929  
AL 20030312  
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR  
BR 2001011266  
JP 20040503520  
T2 20040205  
NZ 521265  
A 20040625  
ZA 2002007204  
A 20030523  
US 2003212292  
US 6809214  
B2 20041026  
NO 2002005967  
A 20021212  
PRIORITY APPLN. INFO.:  
OTHER SOURCE(S): CASREACT 136:37403; MAREPAT 136:37403  
GI

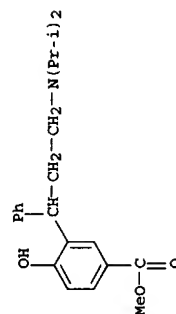


AB 3,3-Diarylpropylamines I [R = H, alkyl; R1, R2 = alkyl] are prepared by reaction of R2CC6H4OH-4 with PhCH:CHO2H to give a 2-oxo-4-phenyl-3,4-dihydrobenzopyran-6-carboxylate which is resolved via its cinchonidine salt, the (R)-isomer hydrolyzed to the acid which is reesterified, reduced to the benzopyranol, and subjected to aminolysis to give I. I [R = Me, R1, R2 = CHMe2], thus obtained, was then reduced to the benzyl alc. II.  
IT 214601-16-8P 380636-45-3P  
RL: RCI (Reactant); SFN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(shortened synthesis of 3,3-diarylpropylamine derivs.)

RN 214601-16-8 CAPLUS

CN Benzoic acid, 3-[3-[bis(1-methylethyl)amino]-1-phenylpropyl]-4-hydroxy-, methyl ester (9CI) (CA INDEX NAME)

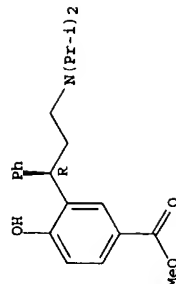


RN 380636-45-3 CAPLUS

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214501-17-9P  
RU: SPN (Synthetic preparation); PREP (Preparation)  
(shortened synthesis of 3,3-diarylpropylamine derivs.)  
214501-17-9 CAPUS  
Benzoic acid, 3-[(1R)-3-[bis(1-methylethyl)amino]-1-phenylpropyl]-4-hydroxy-, methyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).



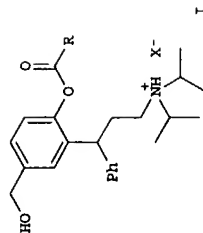
REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE REFORMAT

110 ANSWER 3 OF 6 CAPLUS COPYRIGHT 2004 ACS ON STN  
 2001:449738 CAPLUS  
 135:61141  
 TITLE: Preparation of stable salts of 2-(3-diisopropylamino-1-phenylpropyl)-4-hydroxymethylphenyl esters.  
 INVENTOR (S): Meesse, Claus  
 PATENT ASSIGNEE (S): Schwarz Pharma A.-G., Germany  
 SOURCE: Ger. Offen., 22 pp.  
 CODEN: GWXXBX  
 DOCUMENT TYPE: Patent  
 LANGUAGE: German  
 FAMILY ACC. NUM. COUNT: 2  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 1995190	A1	20010621	DE 1999-1995190	19991116
DE 1995190	A1	20010621	DE 1999-1995190	19991116
DE 29923134	U1	20000825	DE 29923134	20001115
CA 2389749	AA	20010525	CA 2000-2389749	20001115
WO 2001035957	A1	20010525	WO 2000-EP11309	20001115
WO 2001035957	A3	20011227		20011227

[illegible]

OTHER SOURCE(S): MARPAT 135:61141  
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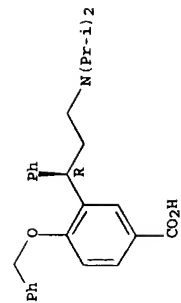


Title compds. II; R = alkyl, cycloalkyl, (substituted) Ph; X = residue of a physiol. acceptable (inorganic acid), were prepared Thus, (R)-2-(3-diisopropylamino-1-phenylpropyl)-4-hydroxymethylphenyl isobutyrate (II) (preparation given) in 2-butanone was treated with fumaric acid under warming to give 83.1% II-hydrogen fumarate.

IT  
acid under warning to give 33.1% II. nitrogen fumarate.  
156755-33-8 286930-05-0  
RL: RCT (Reactant); RACT (Reactant or reagent)  
(preparation of stable salts of 2-(3-diisopropylamino-1-phenylpropyl)-4-hydroxymethylphenyl esters)

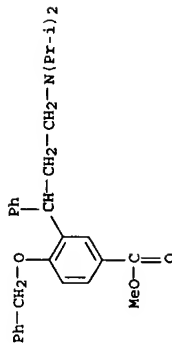
1567555-33-8 CAPLUS  
hydroxymethylphenyl esters)  
Benzoic acid, 3-[(1R)-3-[bis(1-methylethyl)amino]-1-phenylpropyl]-4-(phenylmethoxy)-, hydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).



● HCl

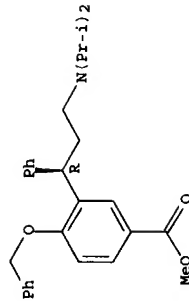
RN 286930-05-0 CAPLUS  
CN Benzoic acid, 3-[(1R)-3-[bis(1-methylethyl)amino]-1-phenylpropyl]-4-(phenylmethoxy)-, methyl ester (9CI) (CA INDEX NAME)



IT 156755-35-0P 156755-37-2P 214601-16-8P  
214601-17-9P

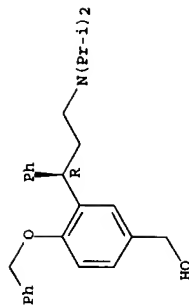
RU: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
(Preparation of stable salts of 2-(3-diisopropylamino-1-phenylpropyl)-4-hydroxymethylphenyl esters)  
RN 156755-35-0 CAPLUS  
CN Benzoic acid, 3-[(1R)-3-[bis(1-methylethyl)amino]-1-phenylpropyl]-4-(phenylmethoxy)-, methyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).

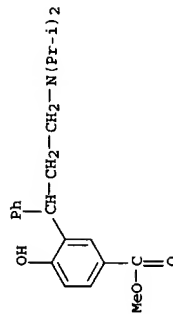


RN 156755-37-2 CAPLUS  
CN Benzenemethanol, 3-[(1R)-3-[bis(1-methylethyl)amino]-1-phenylpropyl]-4-(phenylmethoxy)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).

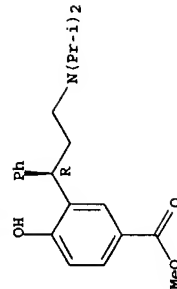


RN 214601-16-8 CAPLUS  
CN Benzoic acid, 3-[(1R)-3-[bis(1-methylethyl)amino]-1-phenylpropyl]-4-(phenylmethoxy)-, methyl ester (9CI) (CA INDEX NAME)



RN 214601-17-9 CAPLUS  
CN Benzoic acid, 3-[(1R)-3-[bis(1-methylethyl)amino]-1-phenylpropyl]-4-(phenylmethoxy)-, methyl ester (9CI) (CA INDEX NAME)

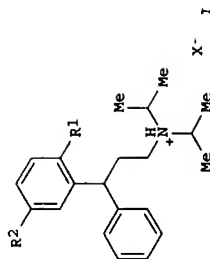
Absolute stereochemistry. Rotation (-).



L10 ANSWER 4 OF 8 CAPLUS COPYRIGHT 2004 ACS on STN  
ACCESSION NUMBER: 2000:533448 CAPLUS  
DOCUMENT NUMBER: 133:155419  
TITLE: Stable salts of novel derivatives of 3,3-diphenylpropylamines  
PATENT ASSIGNEE(S): Schwarz Pharma A.-G., Germany  
SOURCE: Ger. Gebrauchsmusterschrift, 37 pp.  
CODEN: GXXXFR  
DOCUMENT TYPE: Patent  
LANGUAGE: German  
FAMILY ACC. NUM. COUNT: 2  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 29923134	UI	20000803	DE 1999-29923134	19991116

DE 19955190 AI 20010621 DE 1999-19955190 19991116  
 PRIORITY APPLN. INFO.: DE 1999-19955190 IA 19991116  
 OTHER SOURCE(S): MARPAT 133:155419



AB 3,3-Diphenylpropylamine salts I [R1 = RCO2; R = Cl-6 alkyl, C3-10 cycloalkyl, (substituted) Ph; R2 = CH2OH; X = inorg. or organic acid] are prepared for use as prodrugs of agents for treatment of urinary incontinence and other spasmodic disorders. I show improved absorption through biol. membranes and improved metabolic patterns and are easily crystallized. I are prepared from I free base (R1 = PhCH2O, R2 = CO2Me) by debenzoylation, reduction,

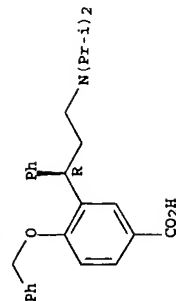
acylation, and combination with HX. Thus, R-(-)-I-HCl (R1 = PhCH2O, R2 = CO2H) was esterified by refluxing in acidic MeOH, the ester was reduced with LiAlH4, the resulting carbinol was reduced with Raney Ni/H2, and the product [R-(+)-I free base, R = CHMe2] was converted to its H fumarate salt by heating with equimolar fumaric acid in 2-butanone; the salt was crystallized by addition of cyclohexanone and cooling to 0°.

IT 136755-33-8  
 RU: RCT (Reactant); RACT (Reactant or reagent)

(stable salts of novel derivs. of diphenylpropylamines)

RN 156755-33-8 CAPLUS  
 CN Benzoic acid, 3-[(1R)-3-[bis(1-methylethyl)amino]-1-phenylpropyl]-4-(phenylmethoxy)-, hydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).

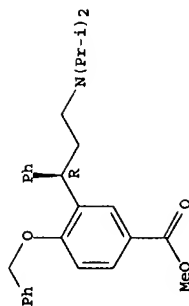


● HCl

IT 156755-35-0P 214601-16-8P 214601-17-9P  
 286930-05-0P  
 RU: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
 (stable salts of novel derivs. of diphenylpropylamines)

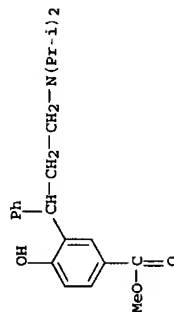
RN 156755-35-0 CAPLUS

CN Benzoic acid, 3-[(1R)-3-[bis(1-methylethyl)amino]-1-phenylpropyl]-4-(phenylmethoxy)-, methyl ester (9CI) (CA INDEX NAME)  
 Absolute stereochemistry. Rotation (-).



RN 214601-16-8 CAPLUS

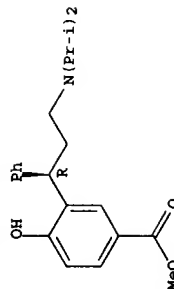
CN Benzoic acid, 3-[3-[bis(1-methylethyl)amino]-1-phenylpropyl]-4-hydroxy-, methyl ester (9CI) (CA INDEX NAME)



RN 214601-17-9 CAPLUS

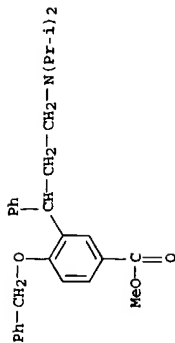
CN Benzoic acid, 3-[(1R)-3-[bis(1-methylethyl)amino]-1-phenylpropyl]-4-hydroxy-, methyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).



RN 286930-05-0 CAPLUS

CN Benzoic acid, 3-[3-[bis(1-methylethyl)amino]-1-phenylpropyl]-4-(phenylmethoxy)-, methyl ester (9CI) (CA INDEX NAME)



L10 ANSWER 5 OF 8 CAPLUS COPYRIGHT 2004 ACS on STN  
 ACCESSION NUMBER: 1999:736261 CAPLUS  
 DOCUMENT NUMBER: 131:336818  
 TITLE: Preparation of 3,3-diphenylpropylamines as  
 antimuscarinic agents.  
 INVENTOR(S): Spärf, Bengt; Meese, Claus O.  
 PATENT ASSIGNEE(S): Schwarz Pharma AG, Germany  
 SOURCE: Eur. Pat. Appl., 27 pp.  
 CODEN: EPXDXW  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

APPLICANTS

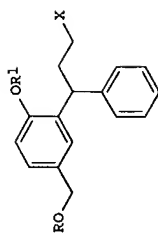
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 957073	A1	19991117	EP 1998-108608	19980512
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CA 2328920	RA	19991118	CA 1999-2328920	19990511
WO 9958478	A1	19991118	WO 1999-EP3212	19990511
W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, GR, GU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, MY, NZ, NL, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, CA				
AU 9941412	A1	19991129	AU 1999-41412	19990511
RU 748057	B2	20020530		
BR 9910406	A	20010109	BR 1999-10406	19990511
EP 1077912	A1	20010228	EP 1999-924929	19990511
EP 1077912	B1	20020703		
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TR 200003319	T2	20011221	TR 2000-200003319	19990511
AT 220056	E	20020715	AT 1999-924929	19990511
EP 1254890	A1	20021106	EP 2002-13481	19990511
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL				
NZ 507487	A	20021126	NZ 1999-507487	19990511
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RU 2181443	T3	20030216	ES 1999-324929	19990511
RU 2195525	T2	20030227	RU 2000-125813	19990511
JP 2003519079	C2	20030617	JP 2000-548284	19990511
ZA 2000005728	A	20010305	ZA 2000-5728	20010107
NO 200005669	A	20010111	NO 2000-5669	20010110
US 6713464	B1	20040330	US 2001-700094	20010102
US 2004186061	A1	20040923	US 2004-766263	20040127

PARENT APP. IN  
 THIS PPT IN

PRIORITY APPL. INFO.:

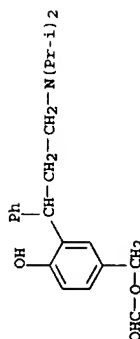
EP 1998-108608 A 19980512  
 EP 1999-924929 A3 19990511  
 WO 1999-EP3212 W 19990511  
 US 2001-700094 A1 20010102

OTHER SOURCE(S): MARPAT 131:336818  
 GI



I

AB Title compds. (I; R = H, Me, Et, Pr, Me2CH, Bu, iso-Bu, pentyl, hexyl, PhCH2, alkyl, CHO, Ac, propionyl, isobutyryl, aminocarbonyl, aminosulfonyl, MeO2C, etc.; R1 = H, Me, Et, Pr, Me2CH, Bu, iso-Bu, pentyl, hexyl, PhCH2, alkyl, phenylalkyl; Z = NR8R9; R8, R9 = hydrocarbyl; NR8R9 = atoms to form a ring; with a proviso), were prepared as antimuscarinic agents (no data). Thus, 4-bromophenol, cinnamyl chloride, and Et3N were stirred 18 h in CH2Cl2 to give 99.8% 3-phenylacrylic acid 4-bromophenyl ester. This was refluxed 2 h with HOAc/H2SO4 to give 43.8% 6-bromo-4-phenylchroman-2-one. The latter was refluxed with benzyl bromide, K2CO3, and NaI in acetone/MeOH to give 102.1% crude Me 3-(2-benzoyloxy-5-bromophenyl)-3-phenylpropionate, which was stirred with LiAlH4 in THF to give 96.3% 3-(2-benzoyloxy-5-bromophenyl)-3-phenylpropan-1-ol. This was stirred with tosyl chloride and pyridine in CH2Cl2 for 18 h to give 91.6% tosylate ester, which was refluxed 97 h with diisopropylamine in MeCN to give 77.9% [3-(2-benzoyloxy-5-bromophenyl)-3-phenylpropyl]diisopropylamine. The latter was converted in several steps to 2-(3-diisopropylamino-1-phenylpropyl)-4-hydroxymethylphenol, which was acylated to give I.  
 IT 250214-62-1P  
 RL: BAC (biological activity or effector, except adverse); BPN (biosynthetic preparation); BSU (biological study, unclassified); THU (therapeutic use); BIOL (biological study); PREP (preparation); USES (uses)  
 RN 250214-62-1 CAPLUS  
 CN Benzenemethanol, 3-[3-(bis(1-methylethyl)amino-1-phenylpropyl)-4-hydroxy- $\alpha$ -formate (9CI) (CA INDEX NAME)

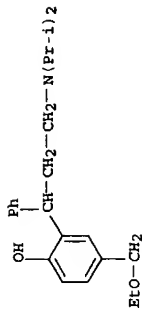


IT 214601-24-8P 250214-51-8P 250214-57-4P  
 250214-58-5P 250214-69-8P 250214-70-1P  
 250214-71-2P 250214-72-3P 250214-73-4P  
 250214-74-5P 250214-78-9P 250214-79-0P  
 250214-85-8P 250214-86-9P 250214-87-0P  
 250214-94-9P 250215-00-0P 250215-01-1P

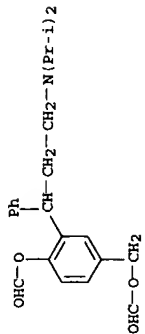


RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

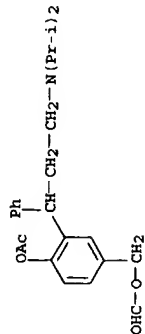
214601-24-8 CAPLUS  
 CN Phenol, 2-[3-[bis(1-methylethyl)amino]-1-phenylpropyl]-4-(ethoxymethyl)- (9CI) (CA INDEX NAME)



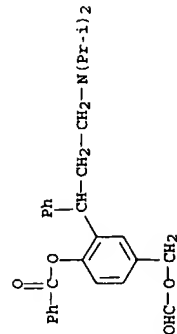
250214-51-8 CAPLUS  
 CN Benzenemethanol, 3-[3-[bis(1-methylethyl)amino]-1-phenylpropyl]-4-(formyloxy)-, formate (ester) (9CI) (CA INDEX NAME)



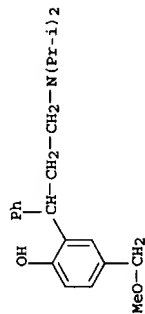
250214-57-4 CAPLUS  
 CN Benzenemethanol, 4-(acetyloxy)-3-[3-[bis(1-methylethyl)amino]-1-phenylpropyl]-, formate (ester) (9CI) (CA INDEX NAME)



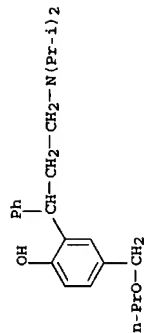
250214-58-5 CAPLUS  
 CN Benzenemethanol, 4-(benzyloxy)-3-[3-[bis(1-methylethyl)amino]-1-phenylpropyl]-, formate (ester) (9CI) (CA INDEX NAME)



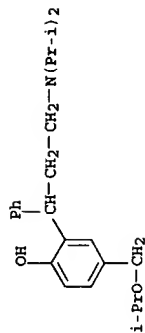
250214-69-8 CAPLUS  
 CN Phenol, 2-[3-[bis(1-methylethyl)amino]-1-phenylpropyl]-4-(methoxymethyl)- (9CI) (CA INDEX NAME)



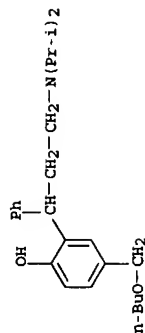
250214-70-1 CAPLUS  
 CN Phenol, 2-[3-[bis(1-methylethyl)amino]-1-phenylpropyl]-4-(propoxymethyl)- (9CI) (CA INDEX NAME)



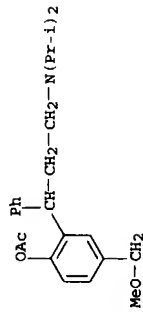
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 CN Phenol, 2-[3-[bis(1-methylethyl)amino]-1-phenylpropyl]-4-[(1-methylethoxy)methyl]- (9CI) (CA INDEX NAME)



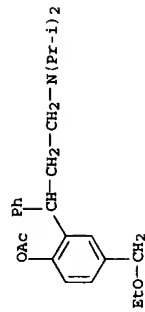
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 CN Phenol, 2-[3-[bis(1-methylethyl)amino]-1-phenylpropyl]-4-(butoxymethyl)- (9CI) (CA INDEX NAME)



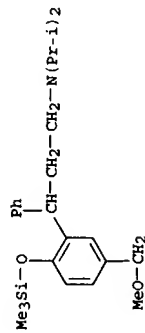
250214-73-4 CAPLUS  
 CN Phenol, 2-[3-[bis(1-methylethyl)amino]-1-phenylpropyl]-4-(methoxymethyl)-, acetate (ester) (9CI) (CA INDEX NAME)



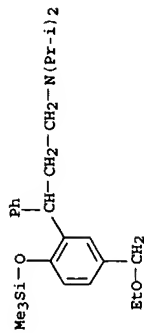
RN 250214-74-5 CAPLUS  
CN Benzenepropanamine, 3-[3-[[bis(1-methylethyl)amino]-1-phenylpropyl]-4-(ethoxymethyl)]-2-phenyl-2-[(trimethylsilyl)oxy] - (9CI) (CA INDEX NAME)



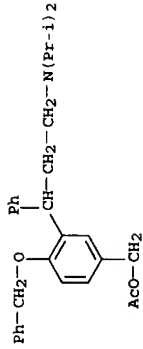
RN 250214-78-9 CAPLUS  
CN Benzenepropanamine, 5-(methoxymethyl)-N,N-bis(1-methylethyl)-gamma-phenyl-2-[(trimethylsilyl)oxy] - (9CI) (CA INDEX NAME)



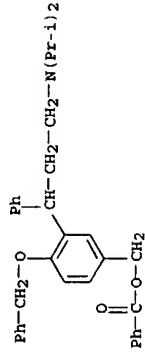
RN 250214-79-0 CAPLUS  
CN Benzenepropanamine, 5-(ethoxymethyl)-N,N-bis(1-methylethyl)-gamma-phenyl-2-[(trimethylsilyl)oxy] - (9CI) (CA INDEX NAME)



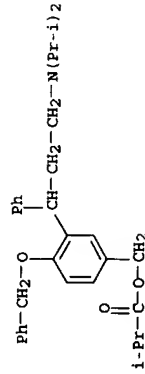
RN 250214-85-8 CAPLUS  
CN Benzenemethanol, 3-[3-[[bis(1-methylethyl)amino]-1-phenylpropyl]-4-(phenylmethoxy)]-2-phenyl-2-[(trimethylsilyl)oxy] - (9CI) (CA INDEX NAME)



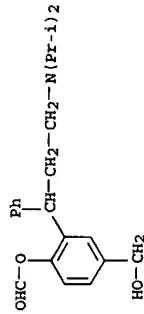
RN 250214-86-9 CAPLUS  
CN Benzenemethanol, 3-[3-[[bis(1-methylethyl)amino]-1-phenylpropyl]-4-(phenylmethoxy)]-2-phenyl-2-[(trimethylsilyl)oxy] - (9CI) (CA INDEX NAME)



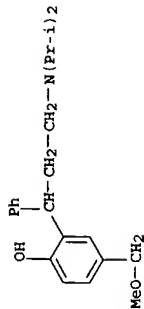
RN 250214-87-0 CAPLUS  
CN Propanoic acid, 2-methyl-, [3-[3-[[bis(1-methylethyl)amino]-1-phenylpropyl]-4-(phenylmethoxy)phenyl]methyl ester (9CI) (CA INDEX NAME)



RN 250214-94-9 CAPLUS  
CN Benzenemethanol, 3-[3-[[bis(1-methylethyl)amino]-1-phenylpropyl]-4-(formyloxy)]-2-phenyl-2-[(trimethylsilyl)oxy] - (9CI) (CA INDEX NAME)

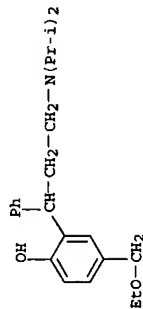


RN 250215-00-0 CAPLUS  
CN Phenol, 2-[3-[[bis(1-methylethyl)amino]-1-phenylpropyl]-4-(methoxymethyl)]-2-phenyl-2-[(trimethylsilyl)oxy] - (9CI) (CA INDEX NAME)



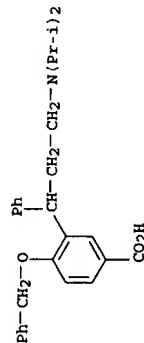
● HCl

RN 250215-01-1 CAPLUS  
CN Phenol, 2-[3-[(1-methylethyl)amino]-1-phenylpropyl]-4-(ethoxymethyl)-, hydrochloride (9CI) (CA INDEX NAME)



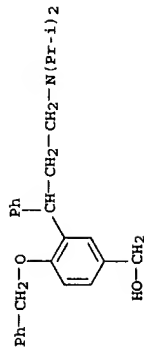
● HCl

IT 250214-38-1P 250214-39-2P  
RU: RCT (Reactant); SPN (synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
(preparation of 3,3-diphenylpropylamines as antimuscarinic agents)  
CN 250214-38-1 CAPLUS  
CN Benzoic acid, 3-[3-[(1-methylethyl)amino]-1-phenylpropyl]-4-(phenylmethoxy)-, hydrochloride (9CI) (CA INDEX NAME)



● HCl

RN 250214-39-2 CAPLUS  
CN Benzenemethanol, 3-[3-[(1-methylethyl)amino]-1-phenylpropyl]-4-(phenylmethoxy)- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 3

THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L10 ANSWER 6 OF 8 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 129:316029

DOCUMENT NUMBER: 129:316029

TITLE: Novel 3-aryl-3-phenylpropanamines with anticholinergic activity, their use in the treatment of urinary incontinence, and their preparation

INVENTOR(S): Johansson, Rolf; Haraldsson, Martin; Ringberg, Erik; Vagberg, Jan; Beierlein, Katarina; Emond, Rikard; Sjöberg, Birger

PATENT ASSIGNEE(S): Pharmacia and Upjohn AB, Swed.

SOURCE: PCT Int. Appl., 88 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

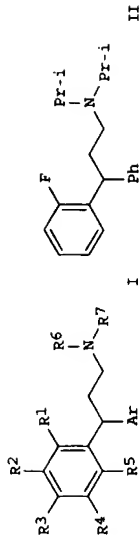
LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

NCT PRIOR ART

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9843942	A1	19981008	WO 1998-SE556	19980326
W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, GM, GW, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LJ, MC, NL, PT, SE, SF, BJ, CF, CG, CI, CM, GA, GN, GU, HK, IL, IN, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, ZW, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LJ, MC, NL, PT, SE, SF, BJ, CF, CG, CI, CM, ZA 9802478	A	19981008	ZA 1998-2478	19980324
CA 2284977	AA	19981008	CA 1998-2284977	19980326
AU 9867552	A1	19981022	AU 1998-67552	19980326
AU 739186	B2	20011004		
BR 9808069	A	2000308	BR 1998-8069	19980326
EP 1019358	A1	20000719	EP 1998-912864	19980326
EP 1019358	B1	20030507		
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AT 239693	E	20030515	AT 1998-912864	19980326
PT 1019358	T	20030930	PT 1998-912864	19980326
ES 2199433	T3	20040216	ES 1998-912864	19980326
TW 555735	B	20031001	TW 1998-87105376	19980409
NO 9904438	A	19991126	NO 1999-4438	19990913
MX 9908862	A	20000228	MX 1999-8862	19990927
US 6313132	B1	20011106	US 1999-381868	19990927
PRIORITY APPLN. INFO.:			SE 1997-1144	A 19970327
			WO 1998-SE556	W 19980326
OTHER SOURCE(S):			MAEPAT 129:316029	
CI				



AB The invention relates to novel compounds. I [wherein R1 = H, OH, alkyl, alkoxy, CF3, amino, alkanoylamino, alkanoyloxy, halo, hydroxyalkyl; R2, R3 = H, OH, alkyl, alkoxy, hydroxyalkyl, halo, carbamoyl, etc.; R4 = (un)substituted alkyl or amino, CHO, CO2H, NO2, cyano, N3, alkoxy, and may also be H, Me, OMe, etc. under some circumstances; R5 = H, halo, alkyl; Ar = (un)substituted (hetero)aryl; R6, R7 = hydrocarbyl with optional OH groups or O bridge(s), and may form a ring; with several provisos], their salts with physiologically acceptable acids, their racemic mixtures, and the individual enantiomers. The compounds have anticholinergic activity, and in particular are of use in the treatment of urinary incontinence. Sixty synthetic examples are given, and approx. 90 compounds (including free bases and salts) were prepared and/or claimed. For instance, Wittig-type reaction of (EtO)2P(O)CH2CON(Pr-iso)2 with 2-fluorobenzophenone, followed by hydrogenation of the formed olefin and reduction of the amide with LiAlH4, gave after acidification, title compound II.HCl. In a test for inhibition of carbachol-induced contraction of isolated guinea pig bladder strips, II had a KB value of 10 nM, and other compounds had values ranging from 1.18 nM to 3315 nM.

IT 214601-51-1P 214601-52-2P 214601-53-3P

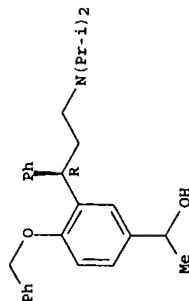
214601-61-3P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent) (intermediate); preparation of arylphenylpropanamines as anticholinergic agents

RN 214601-51-1 CAPLUS

CN Benzenemethanol, 3-[(1R)-3-[(1R)-3-[(1-methylethyl)amino]-1-phenylpropyl]-4-methyl-4-(phenylmethoxy)phenyl]-, (1R)- (9CI) (CA INDEX NAME)

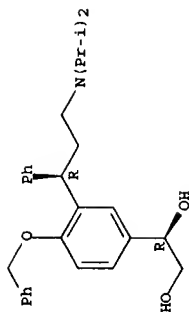
Absolute stereochemistry.



RN 214601-52-2 CAPLUS

CN 1,2-Ethanediol, 1-[3-[(1R)-3-[(1R)-3-[(1-methylethyl)amino]-1-phenylpropyl]-4-(phenylmethoxy)phenyl]-, (1R)- (9CI) (CA INDEX NAME)

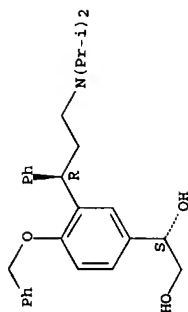
Absolute stereochemistry.



RN 214601-53-3 CAPLUS

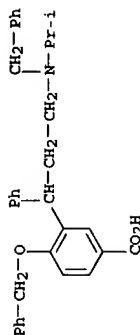
CN 1,2-Ethanediol, 1-[3-[(1R)-3-[(1R)-3-[(1-methylethyl)amino]-1-phenylpropyl]-4-(phenylmethoxy)phenyl]-, (1S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 214601-61-3 CAPLUS

CN Benzoic acid, 3-[(1R)-3-[(1-methylethyl)amino]-1-phenylpropyl]-4-(phenylmethoxy)- (9CI) (CA INDEX NAME)



IT 214600-45-0P 214600-58-5P 214601-16-8P

214601-17-9P 214601-24-8P 214602-05-8P

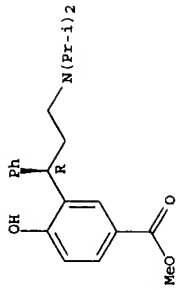
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of arylphenylpropanamines as anticholinergic agents)

RN 214600-45-0 CAPLUS

CN Benzoic acid, 3-[(1R)-3-[(1R)-3-[(1-methylethyl)amino]-1-phenylpropyl]-4-hydroxy-, methyl ester, hydrochloride (9CI) (CA INDEX NAME)

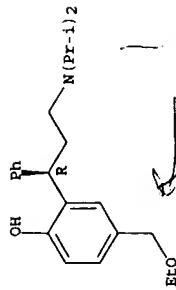
Absolute stereochemistry. Rotation (-).



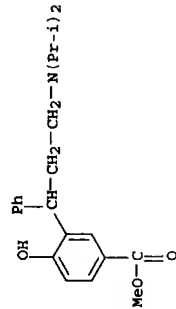
● HCl

RN 214600-58-5 CAPLUS  
CN Phenol, 2-[(1R)-3-[(bis(1-methylethyl)amino)-1-phenylpropyl]-4-(ethoxymethyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

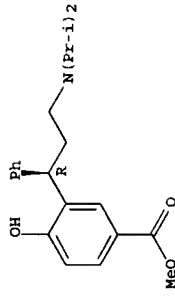


RN 214601-16-8 CAPLUS  
CN Benzoic acid, 3-[(1R)-3-[(bis(1-methylethyl)amino)-1-phenylpropyl]-4-hydroxy-, methyl ester (9CI) (CA INDEX NAME)

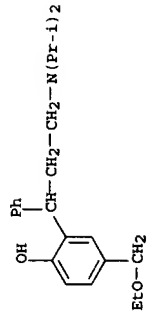


RN 214601-17-9 CAPLUS  
CN Benzoic acid, 3-[(1R)-3-[(bis(1-methylethyl)amino)-1-phenylpropyl]-4-hydroxy-, methyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).



RN 214601-24-8 CAPLUS  
CN Phenol, 2-[(1R)-3-[(bis(1-methylethyl)amino)-1-phenylpropyl]-4-(ethoxymethyl)- (9CI) (CA INDEX NAME)

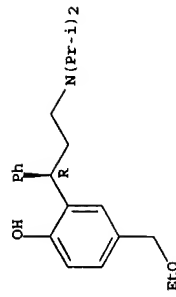


RN 214602-05-8 CAPLUS  
CN Phenol, 2-[(1R)-3-[(bis(1-methylethyl)amino)-1-phenylpropyl]-4-(ethoxymethyl)-, (2E)-2-butenedioate (1:1) (salt) (9CI) (CA INDEX NAME)

CM 1

CRN 214600-58-5  
CMF C24 H35 N O2

Absolute stereochemistry.



CM 2

CRN 110-17-8  
CMF C4 H4 O4

Double bond geometry as shown.



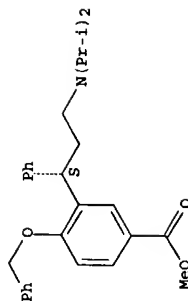
IT 156755-34-9

RL: RCT (Reactant); RACT (Reactant or reagent)

(starting material; preparation of arylphenylpropanamines as anticholinergic agents)

RN 156735-34.9 CAPLUS  
CN Benzoic acid, 3-[(1S)-3-[bis(1-methylethyl)amino]-1-phenylpropyl]-4-(phenylmethoxy)-, methyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).



REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

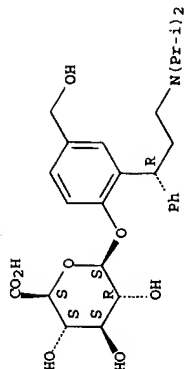
L10 ANSWER 7 OF 8 CAPLUS COPYRIGHT 2004 ACS on STN  
ACCESSION NUMBER: 1998:393013 CAPLUS  
DOCUMENT NUMBER: 129:156415  
TITLE: Biotransformation of tolterodine, a new muscarinic receptor antagonist, in mice, rats, and dogs  
AUTHOR(S): Andersson, Stig H. G.; Lindgren, Anders; Postlind, Hans  
CORPORATE SOURCE: Department of Drug Metabolism, Pharmacia & Upjohn AB, Uppsala, S-751 82, Sweden  
SOURCE: Drug Metabolism and Disposition (1998), 26(6), 528-535  
CODEN: DMSAID; ISSN: 0090-9556  
PUBLISHER: Williams & Wilkins  
DOCUMENT TYPE: Journal  
LANGUAGE: English

AB Tolterodine is intended for the treatment of urinary urge incontinence and of other symptoms associated with an overactive bladder. The in vivo metabolism of 14C-labeled tolterodine was investigated in rats, mice, and dogs by anal. of blood and urine samples, whereas in vitro metabolism studies were performed by incubation of [14C]tolterodine with mouse, rat, dog, and human liver microsomes in the presence of NADPH. Tolterodine was extensively metabolized in vivo. Mice and dogs showed similar metabolite patterns, which correlated well with that observed in humans. In these species, tolterodine was metabolized along 2 different pathways, with the more important being the stepwise oxidation of the 5-Me group to yield the 5-hydroxymethyl metabolite of tolterodine and then, via the aldehyde, the 5-carboxylic acid metabolite. The other pathway involved dealkylation of the nitrogen. In the subsequent phase II metabolism, tolterodine and the metabolites were conjugated with glucuronic acid to various degrees. Rats had a more extensive metabolism and a markedly different metabolite pattern, with metabolites also being formed by hydroxylation of the unsubstituted benzene ring. Gender differences were also observed, with male rats showing more extensive metabolism than females. Incubation of [14C]tolterodine yielded 5 metabolites with rat microsomes and 3 metabolites with mouse, dog, and human microsomes. The 5-hydroxymethyl metabolite of tolterodine, and N-dealkylated tolterodine were major metabolites in all incubations, representing 83-99% of total metabolism. Although the extent of metabolism varied among the species, the metabolic profiles were similar. Rat liver microsomes also formed metabolites hydroxylated in the unsubstituted benzene ring. Thus, the metabolism of tolterodine in mice and dogs

corresponds to that observed in humans, whereas rats have a different metabolite pattern.

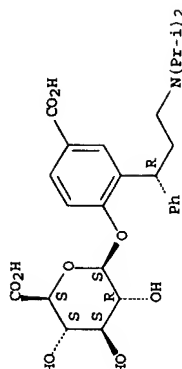
IT 210573-52-7 210573-53-8  
RL: BPR (Biological process); BSU (Biological study, unclassified); BIOL (Biological study); PROC (Process)  
RN 210573-52-7 CAPLUS  
CN B-D-Glucopyranosiduronic acid, 2-[(1R)-3-[bis(1-methylethyl)amino]-1-phenylpropyl]-4-(hydroxymethyl)phenyl (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 210573-53-8 CAPLUS  
CN B-D-Glucopyranosiduronic acid, 2-[(1R)-3-[bis(1-methylethyl)amino]-1-phenylpropyl]-4-carboxyphenyl (9CI) (CA INDEX NAME)

Absolute stereochemistry.



REFERENCE COUNT: 15 THERE ARE 15 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

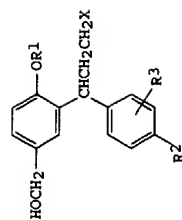
L10 ANSWER 8 OF 8 CAPLUS COPYRIGHT 2004 ACS on STN  
ACCESSION NUMBER: 1994:508197 CAPLUS  
DOCUMENT NUMBER: 121:108197  
TITLE: Preparation of 3,3-diphenylpropylamines and their use  
INVENTOR(S): Johansson, Rolf Arne; Moses, Pinchas; Nilverbant, Lisbeth; Sparf, Bengt Aake  
PATENT ASSIGNEE(S): Kabi Pharmacia AB, Sweden  
SOURCE: PCT Int. Appl., 30 pp.  
CODEN: PIXXD2  
DOCUMENT TYPE: Patent  
LANGUAGE: English  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. DATE  
WO 9411337 A1 19940526 WO 1993-SE927 19931105  
M: AU, CA, FI, HU, JP, NO, US  
RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE  
CA 2148827 AA 19940526 CA 1993-2148827 19931105

102(b)

AU 9454380 A1 19940608 AU 1994-54380 19931105  
 AU 672458 B2 19961003  
 EP 667852 A1 19950823 EP 1993-924876 19931105  
 EP 667852 B1 19980408  
 JP 08503208 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT, SE  
 JP 3343256 B2 20021111 JP 1994-511977 19931105  
 HU 72742 A2 19960409 HU 1995-1329 19931105  
 AT 164828 A2 19960528 AT 1993-924876 19931105  
 ES 2117155 T3 19980415 ES 1993-924876 19931105  
 FI 9502179 A 19980801 FI 1995-2179 19931105  
 NO 9501775 A 19950505 NO 1995-1775 19931105  
 US 5559269 A 19950505 US 1995-432113 19931105  
 US 568464 A 19971111 US 1996-684638 19931105  
 US 1993-3318 A 19921106  
 WO 1993-SE927 W 19931105  
 A3 19950505  
 MARPAT 121:108197  
 OTHER SOURCE(S):  
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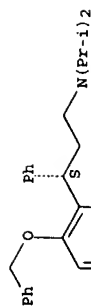
PRIORITY APPLN. INFO.:



I

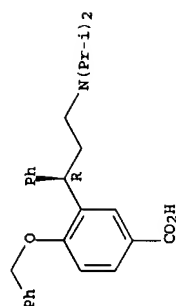
AB Title compds. I (R1 = H, Me; R2, R3 = H, Me, MeO, HO, H2NCO, H2NSO2, halo; X = R4RSN wherein R4, R5 = non-aromatic hydrocarbyl and which together contain at least three carbon atoms, or R4RSN = heterocyclyl), salts, optical isomers, racemic mixture and individual enantiomers are useful as anticholinergics. P-Br-C6H4OH, PhCH:CHCO2H, AcOH and H2SO4 were refluxed to give 6-bromo-4-phenyl-3,4-dihydrocoumarin which was converted in 4 steps to N,N-diisopropyl-13-(2-benzoyloxy-5-bromophenyl)-3-phenylpropylamine (II). II was resolved to the (-)-isomer and converted in 4 steps to (-)-I [R1 = PhCH2, R2 = R3 = H, X = (Me2CH)2N]. (-)-mandelate salt (III). In tests for anticholinergic effect, III produced a dose-dependent inhibition of the acetylcholine-induced effect on the bladder which was about 10 times more efficient than that of a prior art analog.

IT 156755-32-7P 156755-33-8P 156755-34-9P  
 156755-35-0P 156755-36-1P 156755-37-2P  
 RU: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
 (Preparation and reaction of, in preparation of anticholinergics)  
 156755-32-7 CAPLUS  
 CN Benzoic acid, 3-[(1S)-3-[bis(1-methylethyl)amino]-1-phenylpropyl]-4-(phenylmethoxy)-, hydrochloride (9CI) (CA INDEX NAME)  
 Absolute stereochemistry. Rotation (+).



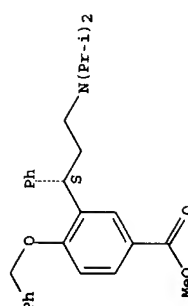
● HCl

RN 156755-33-8 CAPLUS  
 CN Benzoic acid, 3-[(1R)-3-[bis(1-methylethyl)amino]-1-phenylpropyl]-4-(phenylmethoxy)-, hydrochloride (9CI) (CA INDEX NAME)  
 Absolute stereochemistry. Rotation (-).

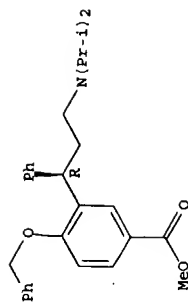


● HCl

RN 156755-34-9 CAPLUS  
 CN Benzoic acid, 3-[(1S)-3-[bis(1-methylethyl)amino]-1-phenylpropyl]-4-(phenylmethoxy)-, methyl ester (9CI) (CA INDEX NAME)  
 Absolute stereochemistry. Rotation (+).

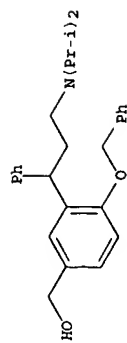


RN 156755-35-0 CAPLUS  
 CN Benzoic acid, 3-[(1R)-3-[bis(1-methylethyl)amino]-1-phenylpropyl]-4-(phenylmethoxy)-, methyl ester (9CI) (CA INDEX NAME)  
 Absolute stereochemistry. Rotation (-).



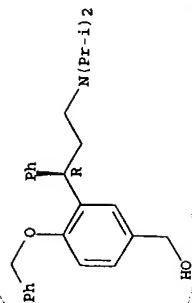
RN 156755-36-1 CAPLUS  
 CN Benzenemethanol, 3-[[bis(1-methylethyl)amino]-1-phenylpropyl]-4-phenylmethoxy)-, (-)- (9CI) (CA INDEX NAME)

Rotation (-).



RN 156755-37-2 CAPLUS  
 CN Benzenemethanol, 3-[[bis(1-methylethyl)amino]-1-phenylpropyl]-4-phenylmethoxy)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).



Connection closed by remote host